

PHENIX WEEKLY PLANNING

1/3/2008 Don Lynch

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Run 8 Task Schedule

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Item	Start	Finish
RPC Tent preparation	On Going	On Going
(see slides)		
Next scheduled Maint. Day	1/16	1/16
Install new UPS	~2/2	~2/9
Switch to p+p run	~2/2	~2/9
Mu Trigger FEE Prototype II install	~2/2	~2/2
Complete new beampipe design	2/29	2/29
Install HBD West for test run	7/15	7/15
End of Run 8	3/1 ?	5/27 ?
End of Run Party	3/7 ?	6/13?
Install Gas house UPS's	3/7 ?	6/13



Yesterday's Maintenance Access Day

Tec hnic a Sup P ort 200 8

- Bad LV replaced for MuTr North
- · PC work;
- ArcNet problems delayed debugging; currently back to standalone mode
- · Work on HV for MuID
- TOF-W recovered by itself
- · ERT threshold changed to double rejection power;
- prescales updated

PHENIX magnet polarity reversed

Next Maintenance Access Day Scheduled for 1/16/08: No work requests yet



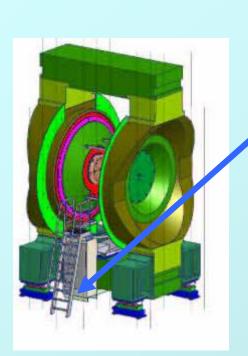
2008 PHENIX Shutdown Prep

January-May 2008:

- Run 8 technical support
- · RPC factory support
- new beam pipe design completion and review
- CM Crane design review and purchase placement
- Muon Trigger FEE prototype test
- MMN station 1 & 2 scaffolding design
- Muon Trigger Rack platform design and review
- RPC3 installation review (support structure, transport and installation fixture design, tunnel vapor barrier modification design, gas mixing and distribution system and piping design).
- VTX, FVTX & NCC technical support

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CM Ladder/Stair Shutdown Access



These ladders rec'd





Field fit components during next few maintenance accesses; install on west during end of d-Au run access



2008



RPC Factory Support



Cosmic Ray Test Stand
Near completion

Preliminary Safety walkthru

Last Friday: Asher, Yousef, Pete C.:

- Add lights and horns;
- · modify control logic
- Safety system checkout (mini-bluesheet)
- Update work plan to include safety system description & checkout procedure, factory test and assembly procedure

Factory nearly ready to begin prototype tests





RPC Factory Issues, cont.

Electrical - Done !! ?

Safety systems - Installation complete, mini-blue sheet

Equipment – Need specs for T^3 (Tilting Transport Table) and GMHOS (gap, module and $\frac{1}{2}$ octant storage) racks, then need to fabricate assemble and install.

<u>Work plan</u> - Add gas system description (Done) and checkout (mini-blue sheet procedure, in progress) to Gas system procedure as appendix A. Production operations require work plan update to include factory gas operation and final assembly/test procedures. To include gas specs (max flow Rates and gas holdup volume for all aspects of the facility.)

Security -RPC group to review C-A policy (3 tier requirement as required by C-A procedure 1.20) RPC group will prepare a one page description of how they intend to comply with this requirement. This will be reviewed by C-A.

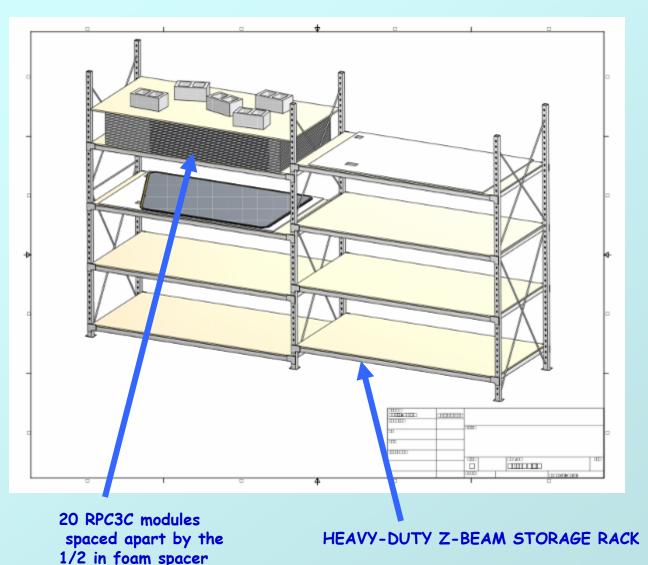






GMHOS





Rusty's factory schedule for assembling 10 modules:

Gap QA (gas leak, HV, popped spacer) ~1week

Assembling modules (stacking, soldering, connect gas, HV, ...) ~ 1 day/module or 2 weeks for 10

This schedule produces 10 modules in 3 weeks, which is about as fast as they can be tested in the cosmic test stand.

To assemble the modules for RPC3 N will take about 6 * 3 weeks = 18 weeks or 4.5 months.



PHENIX

RPC Factory Issues, cont.



Area to the west of RPC factory is now re-posted and cordoned with yellow tape as a controlled area. A corridor has been left to access the bathroom. Any activities which will need to traverse the posted area (e.g. delivery of materials, equipment etc. through the roll up doors) will require a work permit



Technical Support 2008

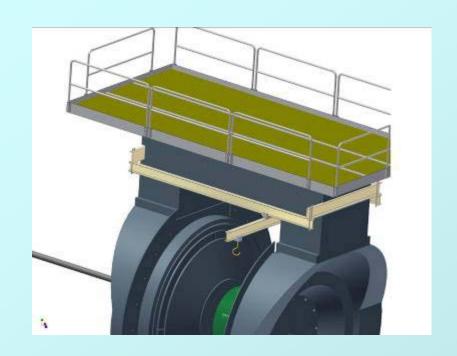
New Beampipe Design & Review



Design to be ready for final review by 2/29/08

Proposed beampipe IR region: 1.61 inch (41.0 mm) OD Be section, .02" (0.5 mm) wall thickness 31.5" (800 mm) long

CM Crane



- Crane Design nearly ready for review
- Uses Gorbel 1-ton capacity Ceiling mounted Bridge Crane, modified to be supported by 2 Steel Channels attached to CM
- Bridge and hoist to be removed for running.



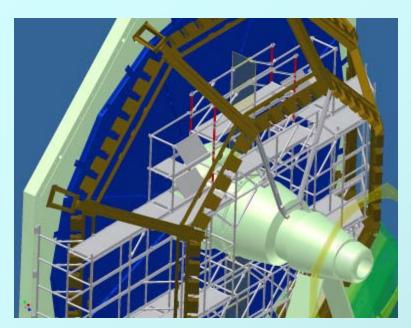
Muon Trigger FEE Prototype Test II

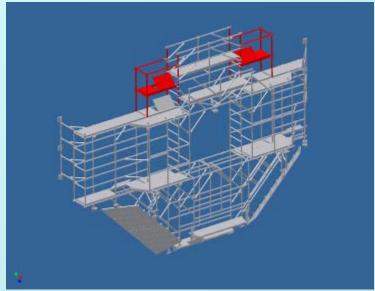


Test this past summer used separate AD and TX electronics.

- New plan combines the two into 1 more compact package.
- Experimental Safety Review is required
- Confined space work permit required.







MMN Scaffolding

Existing MMN MuTr scaffolding is being redesigned to be assemble-able with only one lampshade removed and access to all station 2&3 FEE's from lower hatch.

Additional scaffolding to be designed to access all Station 1 North FEE's and lampshade sites adjacent to station 1.

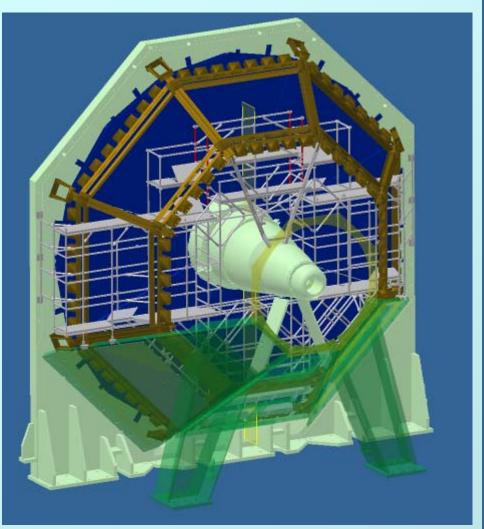
Station 1 North scaffolding to be useable for Station 1 South with minimal modification.

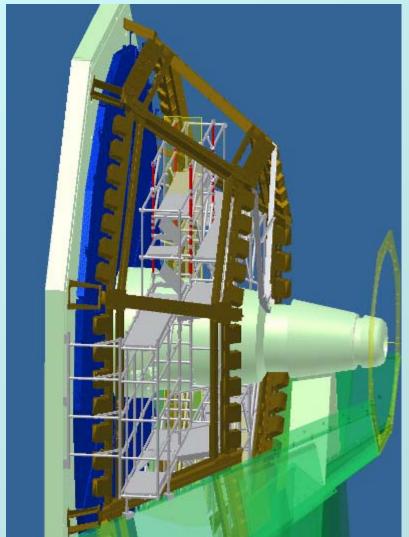
Station 2 & 3 South scaffolding to be addressed later



MMN Scaffolding

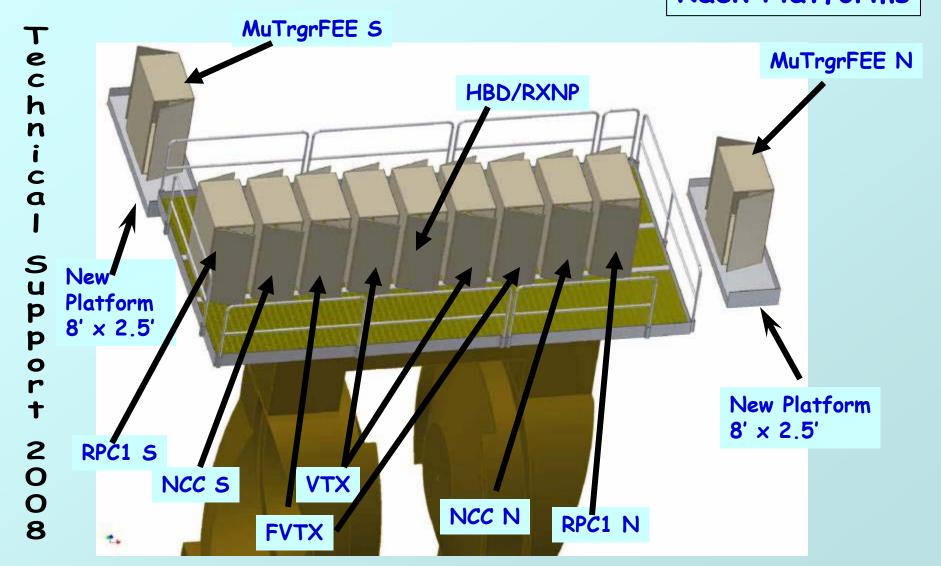
Technical Support 2008







Muon Trigger Rack Platforms





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RPC 3 Design Review

2008 shutdown: install one RPC 3 South and one RPC 2 South prototype half octant: requires installation fixtures, prototype gas system, modifications to tunnel vapor barriers, prototype electronics, cable routing support, and, of course, structural support design













NCC, VTX & VFTX support

- Technica rt 2008 Centrol Magnet Region Detector Lipgrade Seace Allection - Plan View
 - VTX, FVTX and NCC prototype support
 - Integration
 - · Physical and Rack space
 - · Infrastructure upgrades

08



2008 PHENIX Shutdown

June 2008: Remove MuID collar, disengage EC and move to AH, prep IR for shutdown work, remove MMS lampshade, begin MuTr "decapacitor" removal, continue RPC factory construction, receive and install CM crane, complete design reviews, prepare work permits, move CM south, 1 Cu absorber install

July 2008: Re-Install HBD, RPC prototype gas system, Move shielding for RPC installation, RPC prototype cable routing and support, modify crystal palace and tunnel vapor barrier, fabricate RPC installation fixtures, install MMN Station 2 & 3 scaffolding, TBD

August 2008: Install RPC prototypes, install Mu Trigger FEE's in MMS and MMN, Install N&S rack support platforms for Mu Trigger FEE's. Install MMN cooling water and air supply for MMN. TBD prototype tests, TBD infrastructure work

September 2008: Replace tunnel shielding, connect electronics, gas, water and air as necessary for RPC and Mu Trigger FEE,

October 2008: Prepare for run, EC into IR, install collars, build shield wall, etc.

November 2007: blue sheets, white sheets, close wall, start shifts, flam. Gas, physics

Other Work



- Clean Out Container: Material is evaluated. Clean out and dispose by end of Nov.
- Procedure review pick up where we left off
- JTA review Nearly Complete



Safety, Security, Etc.:

- 1. ICY on-site: Drive Carefully, Walk carefully. Be especially careful on steps.
- 2. Training: JTA evaluation:
 - Carter, Kenny, Jimmy, Mike L., Mike R., Frank, (Good) Sal, Steve, John T.,
 Paul, Don, Rob and Richie
 - 40 JTA's identified comprised of 64 different courses, 37 of which are onetime: 27 are renewable
 - For all listed I have broken down the courses to J (JTA requirement), R (Required, but not listed on JTA), O (optional, probably should), N (not required), S (satisfied by some other requirement)



Technical Support 2008

	_		C. Biggs	K. Jones	J. LaBounty	M. Lenz	F. Toldo	J. Tradeski	S. Boose	P. Giannotti	D. Lynch	R. Pisani	S. Polizzo
JTA PO-01	Course	Renew frequency											
Physics department	PO-RADALARA	1 tim e	J	J	J	J	J	J	J	J	J	J	J
m em ber	TQ-SAFEAW ARE	1 tim e	J	J	J	J	J	J	J	J	J	J	J
PO-02 Physics	TQ-0SH-019W	1 tim e	J	N	N	N	N	N	R	R	R	N	N
supervisor	TQ-SL-SUP	1 tim e	J	N	N	N	N	N	R	R	R	N	N
PO-06 Physics Dept. Elect Safety 1 -	PO-ELECSAFETY	3 yr	N	N	N	N	R	N	J	R	N	N	R
Authorized W orker	TQ-ELECSAF1	2 yr	N	N	N	N	S	N	J	R	N	N	R
GE-10B LEVEL II Rad work control	(HP-RWT001 [*satisfied by AD- CA_COLLIDER_EXAM which is equivalent])	see RC-P8	s	N	N	N	N	N	s	s	S	R	N
coordinator	TQ-WORKPLAN-MO	1 time	s	N	N	N	N	N	S	S	s	R	N
GE-10D	GE-WCC-PRAC	1 tim e	J	N	N	N	N	N	R	J	J	N	N
W ork Control Coordinator-	HP-OSH-150A	1 tim e	Ą	N	Ŋ	N	N	N	R	ł	Ą	N	N
Experimental	QA-SCI-3A TQ-DBSA	1 time 1 time	J	N N	N N	N N	N N	N N	R	J	J	N N	N N
	TQ-WORKPLAN-ST	1 time	Ĵ	N	N	N	N	N	R	Ĵ	Ĵ	N	N
GE-12 Static magnetic field qualified	TQ-SMF	3 yr	R	R	R	R	R	R	R	R	R	R	J
GE-22	TQ-FIRE-EXT	3 yr	0	N	N	N	N	0	N	N	N	N	N
Welding, Cutting	TQ-FIRE-EXT-P	3 уг	0	N	N	N	N	0	N	N	N	N	N
Brazing and Fire Watch qualified	TQ-FIREW ATCH	3 yr	0	N	N	N	N	0	N	N	N	N	N
GE-25A Technical Rep	PR-CONTRACT-SBMS	3 уг	J	N	N	J	0	0	R	J	J	R	N
GE-46B Heat stress prevention	TQ-HEATSTRESS	1 tim e	R	R	R	R	R	R	R	R	R	R	R
GE-47 Local Emergency Coordinator	TQ-LEC	1 tim e	N	N	N	N	N	N	N	J	N	N	N
GE-48D Aerial lift OJT evaluator	(GE-FALLPROTECT) (TQ-AERIAL-C) TQ-AERIAL-EVAL (TQ-AERIAL-P)	see GE-81 see GE-80 3 yr see GE-80	N N N N N N N N N N N N N N N N N N N	0000	0000	0000	222	ZZZZ	N N N	2222	2222	X	N N N N N N N N N N N N N N N N N N N
GE-53E BNL Employee	GE-CIA GE-CYBERSEC GE-EMERGPLAN GE-ENV-GET	1 time 1 time 1 time 1 time	j	1	, , ,	J	j	, , ,	1	, , ,	j	j	1
	GE-STOPWORK HP-V-001	1 tim e 1 tim e	j	j	j	j	ÿ	j	j	j	j	j	j
	TQ-GET2004 TQ-PROTECTID TQ-SAFEAWARE	1 time 1 time 1 time) J))]]	J J	J	J J) J	J) J	J J	J J
GE-56	HP-Q-010-W	3 yr	R	J	R	R	N	J	N	N	N	N	N
Overhead crane operator	TQ-RIG-C	3 yr	R	J	R	R	N	J	N	N	N	N	N
	TQ-RIG-P	3 yr	R	J	R	R	N	J	N	N	N	N	N



5 Year Plan

T e c h	2008	Install stations 1& 2 of MuTr FEE upgrades (north), 1 octant Cu absorber (S), 2 half otants RPC2/3 S, infrastructure upgrades & repairs, misc. subsystem work, MMN scaffolding
n i c a	2009	Scaffolding in MMS, MuTr FEE N stn. 1,2 & 3, MuTr N&S stn. 1,2 & 3 repairs, RPC2 N, RPC3 N, north Cu absorbers, infrastructure upgrades & repairs, misc. subsystem work
I S u P	2010	Remove HBD & RXNP, remove beampipe, DC West upgrade, VTX barrel, south Cu absorber completed, MuTr FEE stn. 3 S, MuTr stn. 1, 2 & 3 S repairs, infrastructure upgrades & repairs, misc. subsystem work
p o r	2011	RPC1 N&S, NCC S, FVTX, infrastructure upgrades & repairs, misc. subsystem work, remove south absorber
2	2012	NCC N, upgrades contingency & wishlist, infrastructure upgrades & repairs, misc. subsystem work, remove north absorber
0 0 8		s refer to the shutdown year and follow the run with the similar number work in 2008 is to be done in the shutdown that follows run 8, and so on)



Where To Find PHENIX Technical Info



Links for the weekly planning meeting slides, long term planning, pictures, videos and other technical info can be found on the web site:



http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm